

Notes from the 9/27/05 MI BPM Upgrade Meeting
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These notes can be found in Beams docDB #1526.

Agenda as announced:

Project Announcements : Bob and Steve
Combiner Board status : Tim, Bob Forster, Vince
VME crate purchase status : Bob Forster
MI30 status : Peter, Bob Webber
Transition Board status : Manfred
Service Building survey/BLM coordination : Tim, Marv
Front-end software : Luciano
MVME processor status : Luciano Margaret, Steve
Online software : Brian
Validation: Rob Kutschke
MI BPM requirements/MI issues : Dave and Alberto
Timing Board : Bill
AOB

0. Announcements - Bob and Steve

- It is the end of the month -- Bakul will be asking for updates of status and I will be putting together the monthly report.

1. Combiner board status - Tim, Vince

- Tim showed some status of the combiner board testing, assembly into their boxes, and installation into the tunnel. beams-1970-v2 has Tim's slides.

- 23 boxes were installed during an access last week. 29 boxes were pulled out of the tunnel. 6 boxes were not radioactive, 23 were class 1.

- At the moment 23 more boxes are ready for installation, 4 failed and need some investigation (may be the test is too strict and needs to be modified), and 3 are in process.

- One BPM was somehow mis-connected during the access. More checking will be done next time.

- The remaining 124 combiner boards are being shipped (or has been shipped) as the company either found the missing parts or was able to obtain them quickly.

2. VME crate purchase status : Bob Forster, Vince

- The VME crate purchase is in purchasing and is in the bid process.

3. MI30 status : Peter,Bob Webber

- The MI30 TBT measurement is still being worked on. There is a way to take TBT measurement but hasn't yet been demonstrated.

4. Transition Board status : Manfred

- Manfred has a note in docDB 1968 with details on the status of tests of the 2-channel transition board prototype. Some problems of saturation were seen on the 53MHz channel. Changes have been made to eliminate the problem and further tests and measurements will be made. These changes will affect the layout and possibly the control signals required for the system.

- Next steps are to finalize the design and produce the layout for the 8 channel prototype with IO.

5. Service Building survey/BLM coordination : Tim, Marv

- Tim showed some drawings made by Stew Bledsoe of the cable runs required for some of the signals in MI10-60. These can be found in beams-doc-1822.

- A couple of issues: It is hot (temperature) in MI60N. And we would like to specify and order cables if that can be done. The lead times on cable delivery is quite long.

6. Front-end software : Luciano

7. MVME processor status : Luciano, Margaret, Steve

- Work is proceeding on both fronts. The front end software is being developed and tested on the teststand. The CO and multiple TBT measurements are not yet working.

- The 5500 port is proceeding. Still not finished as further changes are needed but progress is being made.

8. Online software : Brian

- Looking into some ideas for getting information to the front end as discussed by Rob Kutschke (and possibly others). This led to a rather long and interesting discussion of the intricate workings of the MI, information available in TLG, MDAT, etc., including the ability of the timing board to grab and store MDAT information. There is more

discussion needed!

- Data structures are more or less decided upon and they need to be properly documented.

9. Validation: Rob Kutschke

- Rob is reading and helping with the requirements discussions.
- Is waiting for data to analyze.

10. MI BPM requirements/MI issues : Dave and Alberto

- A meeting was held last Friday to discuss Margaret's comments to the requirements document. The result of those discussions will go into an updated requirements document.

- The discussion will continue this Friday, September 30, at 10:30 in the Dungeon. Alberto will send mail

11. Timing Board - Bill

- Greg has finished the layout. Will get the requisitions out next week when Greg returns.